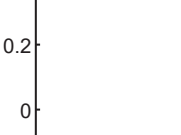


The figure is divided into two main parts. The left part is a schematic diagram of a quantum transport setup. It shows a central region labeled 'trap' (a red circle) between two electrodes. A dashed line represents the x-axis with points 0 , x_m , and x_t . A double quantum dot system is shown with red lines representing energy levels. The distance between the dots is l_0 . The tunneling rates are labeled T and T' . The right part shows three fluorescence images labeled 'Position 1', 'Position 2', and 'Position 3'. Each image shows a bright spot (yellow arrow) indicating the position of the trapped electron. The images show that the electron is trapped at different positions depending on the gate voltage.



A scatter plot showing the relationship between Trap position (μm) on the x-axis and Interface position (μm) on the y-axis. The x-axis ranges from -1 to 1, and the y-axis ranges from -0.4 to 0.4. Black dots represent individual data points, and a solid orange line represents a linear fit to the data. The data points are scattered around the line, which has a positive slope of approximately 0.4.